

```

# NUMBERS & ODDITIES #
//////////////////////////////////// \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
- Editor: Ary Boender      *****      e-mail: ary@luna.nl -
- Nickname on IRC channels #wun #monitor #numbers: Ary-B -
----- Co-editors -----
- Voice stations: Chris Smolinski <cps@access.digex.net> -
- Loggings: Jascha Ruesseler -
- <ruessele@pc0401.Psychologie.Uni-Marburg.de> -
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

```

-::: N&O #08 :::-

It is good to see that the CW stations are becoming more popular. In last month's log file I noticed morse logs from other people than the regular bunch. Great; keep those logs coming folks!

Please note that we intend to mail the next newsletter before Christmas, so if you have anything for the December issue, please send it to us before the 15th!!

For those who are interested; Bletchley Park has a website at <http://www.cranfield.ac.uk/ccs/bpark/>

* GOLDEN OLDIE *

When I was browsing thru old recordings, I found a 1981 recording of a numbers station. Unfortunately I didn't record the complete broadcasts in those days, nor did I jot down essentials as freq, date, and time. Anyway, the transmission starts with a piano piece followed by a Slavic male voice 515 515 05 826 826 05 515 +5x5FG 826 +5x5FG.

Can anyone tell me what station this is? It could be an early version of Czech intel station S10.

* MORSE STATIONS *

::: M26 - '98' updated profile

The station transmits irregularly with a speed of 10 WPM, and can easily be recognized because of its typical messages. The messages mostly started with '98' in the past but during its active periods in 1997 and last October most messages started with '99'. Other numbers were also copied, the majority in the 90's.

Format 1: (used before 1997)

98 + several 5FG, continually. The first groups in the various messages often start with the same figure(s). The final group is almost always 11111, but other groups of the same figures have

been noted (55555 and 22222). Sometimes the station sends endless '98 98 98' for hours.

Example:

```
98 12744 13111 11111
98 07802 13111 11111
98 04742 11111 11111
```

Format 2: (used during October 1998, but also noted in 1997)

99 + one 5FG. The 5FG changes regularly. Before the next message appears, the station transmits series of 99's varying from 1 to 5 minutes. Note the '95 12345' sequence. This is probably a test message as it returns regularly.

Example:

```
99 10528
99 99 99 99 99
99 10500
99 99 99 99 99
95 12345
99 99 99 99 99
95 10510
99 99 99 99 99
99 10520
```

Every now and then groups of messages are being transmitted. The messages start with various 2-figure groups. The station repeats each xx xxxxx many times, then goes to next. When it transmitted all the messages plus a test message, it returns to the first one and starts all over again.

Example:

```
99 20388
95 12345
32 30356
99 10826
then repeats
99 20388
95 12345
etc etc
```

Besides the above mentioned types of messages, I copied the following in October:

```
92 31
31 31 31 + various 5FGs
34 34 34 + various 5FGs
32 32 32 + various 5FGs
```

34 34 34 + various 5FGs
99 99 99 99 99 99 99 99
99 20338

Freqs: 2379 2961 3153 3146 3159 4106 4439 4442 4445
5171 5196 kHz, always on two parallel frequencies.
October 1998 freqs: 4106 // 2961 kHz
So far all freqs were found in the 2,3,4 and lower 5 MHz
bands (5100-5200). 2961 kHz is a regular since 1995.

Who, what, where???

I still have no clue..... The station was df'ed during its latest
active period, but the time was too short for a good fix. So, what do
we have?

Df from Gotland, Sweden: one hop NW Germany or two hops: SE England
Df from Holland: Goteborg, Sweden
Df from midwest Germany: due west (= Netherlands or S England)
Latvia sez: pretty sure that it comes from my west.

It is suggested that the station might be one of the RN Schools of
Signals in SE England, possibly Portsmouth, Plymouth or London.

!!!!!! Your comments and info are of course more than welcome !!!!!

-o-o-o-o-o-o-o-o-o-o-

::: M63. "A2A" has settled down on its winter freqs and times. The daily
morning transmission is now at 0600 UTC (presumably the same local time
as summer, as most of Europe went off Daylight Saving a couple of weeks
ago) on 3393 and 4313 kHz, the net replying on 3183 kHz. At that time
3393 kHz is quite weak in the UK, and presumably inaudible outside
Europe; 4313 kHz is fairly strong. (tnx JD)

-o-o-o-o-o-o-o-o-o-o-

Guy Denman informs us about the new skeds for M29 and M53:
::: M29 is on 4540 kHz at 1800 UTC and 4460 kHz at 2000 UTC
::: M29B is on 5810 kHz at 1300 UTC
::: M29B is on 5911 kHz at 1330 UTC
::: M53 is on 6820 kHz at 0800, 2000, 2100 UTC

-o-o-o-o-o-o-o-o-o-o-

Locations:

::: M23 transmits on 11350 kHz from Syracuse, Italy
This station probably transmits from other locations as well.
::: M52 transmits from Trondheim, Norway

-0-0-0-0-0-0-0-0-0-0-

::: POLYTONE STATION [XPH]

Can anyone tell me when the first polytone station appeared? I found a recording from 1981 in my collection, so they are there for at least 17 years!

XPH hunter Andy Bell discovered that XPH not only changed their usual frequencies in November, but also one of the transmission days.

XPH's morning schedules are now on Tuesdays and Fridays - they were on Wednesdays and Fridays. Obvious frequency ID of 215. XPH also changed their time slot to winter time.

Apparently something went wrong as the first November transmissions were on the October frequencies. They eventually changed to a new set of frequencies.

November morning skeds:

07.00 UTC - 11634 kHz

07.20 UTC - 12434 kHz

07.40 UTC - 14834 kHz

Andy sez ''I wonder if the station manager read his Spooks mail and realised they hadn't changed frequencies''

Andy continues.... ''tuned in for XPH this morning (Tue, 17 Nov 98) on the November frequencies. However the 0720z transmission went out on 13434 kHz and not 12434 kHz as expected.''

-0-0-0-0-0-0-0-0-0-0-

* JAMMERS *

During the Cold War era, the Radio Free Europe directed transmissions to East Block countries (from the Munich area), which were heavily jammed with fluctuating multi-tone machine-sounding modulation. The RFE transmitted the same program (various reports, news, DJ music, etc) on different SW bands, such as 16,19, 25, 31, 41, 49m SW (it was announced as this). The bands used were different during the day, night, winter, summer. However, it became known, that there is always 1 frequency, where the program is not jammed. So with a little fiddling with the buttons, one could find a clear transmission (I have checked out this myself, and it was true). The reason of leaving 1 frequency not jammed was (known as) the local authorities wanted to tape and listen in the programs, too! From time to time the jammers transmitted an id marker in morse. [thanks for the info, AC]

Note: I mentioned Rimantas Pleikys' book "Jamming" before. He describes these stations extensively. A list of the markers and their locations can be found in his book.

-0-0-0-0-0-0-0-0-0-0-

* VOICE STATIONS *

::: ENGLISH MAN VARIANT

Eddy Waters found a rare English Man transmission. The transmission follows the normal structure of an English Man message, but is followed by several data bursts and a morse message. This station actually waits for feedback from the receipient!

The complete message was in English 874 874 874 901 901 54 54 -into 54 5FGs- 901 901 54 54 00000, followed by a few bursts of data and the following in morse: 7SA1 QSA 4I K -pause- R K

Besides Eddy's log, I have only seen two earlier logs for this station, both loged by Enigma's Mike.

10440 1230 UTC 14 Nov. 1998

13572 1900 UTC 23 April 1995

6915 2200 UTC 28 April 1995

Mike sez that the messages on both days were the same: 572 572 572 861 861 54 54. Ending: 861 861 54 54 00000 + data + CW.

Apparently the station has a standard group count of 54.

The question is whether this English Man is the same as E6 or not?! It is of course possible that the station has been logged many times in the recent past, but that it has been mis-reported as E6. So, I'd like to ask you to listen to the English Man transmissions very carefully. Don't switch your radio off after '00000' but wait a minute or two and see if the data and morse part appears.

-0-0-0-0-0-0-0-0-0-0-

::: ENGLISH MAN [E6]

Intersting info reached us via John Maky. He copied the English Man on 6865 at 0130 on 22 Nov. with "936 then 782 782 194 914 and into 5FGx2". Down at :07 w/782 782 64 64 00000. Recently these broadcasts have taken on a new twist - they use the same frequency more than twice.

The station was also on 4630 kHz at 0400 on 22 Nov. Repeating "347 then 592 592 64 64 and into 5FGx2". Down at :16 w/592 592 64 64 00000. Repeat of previous night's broadcast.

When audio dropped, a second weaker broadcast could be heard on the

carrier repeating 329 329 329 00000, which is a repetition of the 0415 broadcast from 22 Nov. on 9216 kHz.

Very nice catch, John!

ENIGMA's Mike found the English Man on a new frequency:
4470 kHz at 2200 UTC. Preamble 534. Ending 218 77 00000 at 2218 UTC

-o-o-o-o-o-o-o-o-o-o-

::: S19, the Slovak man, was on the air again on Thursday 19 Nov. along with its morse counterpart M10.

M10 was on at 1000 on 5020 kHz
Message 111x3 52544 18 44730 20 36512 17 19782 19
S19 was on at 1300, still on 10642 kHz
Message 111x3 83674 18 57080 14 67460 16 86074 20

It seems that they are on every 4 weeks. [source Guy Denman]

-o-o-o-o-o-o-o-o-o-o-

::: 'NANCY ADAM SUSAN' [E15]
Costas forwarded the following interesting note from the Amateur radio Intruder Watch. The German PTT agrees with the location that I mentioned recently and also pin-points this station in northern Egypt.

Quote

RegTP Konstanz (German Telecoms.) the "input"-office for the German Intruder Watch, have reported to DARC MONITORING SYSTEM Intruder Watch that they have pin-pointed the net starting at 14.00 and 17.00 UTC on 14000.0 kHz with the spoken announcements in SSB-USB "Frank Young Peter" followed by spelling scrambled messages: The station is located in the Cairo-vicinities, EGY. RegTP Konstanz have informed their headquarters in Mainz to launch an International Complaint against this offender.

Uli, DJ9KR [Coordinator DARC-MS]
Unquote

-o-o-o-o-o-o-o-o-o-o-

::: CZECH LADY CONTROL TRANSMISSION [S17]

Format : 555 555 555 313 313 313 05 repeated for 5 minutes
313 313 313 42 42 05 05 pozor pozor
5-figure group repeated 10x
pozor pozor

42 42 05 05
konec konec

Time : 13.55 UTC

Frequencies: 4485//5027 kHz

Hans-Friedrich Dumrese sent me his S17 findings. Thanks for the list HD! The first thing that catches the eye is that most groups start with '8' or '9'. The third figure is always '0' and finally '31' and '32' are often the last two figures.

day	date	time	freq	group
---	-----	----	----	-----
Fri	11.09.98	1355	5027	79031
Sun	13.09.98	1355	5027	82033
Sat	26.09.98	1355	5027	83036
Fri	09.10.98	1355	5027	89031 (!)
Sat	10.10.98	1355	5027	89031 (!)
Fri	16.10.98	1355	5027	83032 (!)
Sat	17.10.98	1355	5027	83032 (!)
Sun	18.10.98	1355	5027	95031
Mon	19.10.98	1355	5027	95025
Tue	20.10.98	1355	5027	82032
Wed	21.10.98	1355	5027	94032
Thu	22.10.98	1355	5027	90022
Fri	23.10.98	1355	5027	95029
Sat	24.10.98	1355	5027	82032
Sat	30.10.98			90091
Sat	31.10.98	1355	5027	87030

(!) on 09+10 and 16+17 October, they transmitted the same groups.
This is the first time that this has been reported.

-o-o-o-o-o-o-o-o-o-o-

::: SWEDISH RHAPSODY [G2/M4]

The following info was provided by Guy Denman:

The G2/M4 station is having some major changes just lately, it has gone from having a large number of skeds to having very few. Most of these seem to be during the day. M4 Is now only on the second week of the month on Monday, Wednesday and Thursday at the following times and frequencies: 1000 on 7250, 1200 on 8188, and 1300 on 5748. The same IDs and message sent all week.

Another really major change occurred recently. I heard G2 on Monday same

times as last Month, 1000 on 6200, 1200 on 8188, and 1300 on 6507. All transmissions were on SSB with 3 playings of the Swedish Rhapsody, then a count 1 to 0. IDs were 65069 12876 49906.

An English transmission was heard at 1000 on 6200 with a 1-0 count. Each figure was repeated 5 times this for 5 minutes. There was no SR tune. It then went on to the same IDs as Monday 65069 12786 49906 each repeated twice, the whole repeated 3 times. Then without a pause 65069 twice then 100x5F, no pause at the end 12876 twice 100x5F then 49906 twice 100x5F. No ending. There were no attention or end as in G2, and no pauses anywhere. The voice sounds very much like E5 the counting station.

-0-0-0-0-0-0-0-0-0-0-

::: THE COUNTING STATION [E5/V5]
by Chris Smolinski <cps@access.digex.net>

:::: "The CIA, a training center, nuclear war, ::::
:::: a woman named Cynthia, and an old farm..." ::::

An interesting mix, certainly! What do they all have in common? Why a Spy Numbers Stations, of course.

Many of us are familiar with The Counting Station (TCS, ENIGMA E5/V5). This station is also referred to as Cynthia (CynthIA), and that is the nickname given to the woman's voice who calls out the digits. This is the numbers station that most believe to be associated with the US Central Intelligence Agency (CIA). Transmissions from this station have been heard for years. Originally, the transmissions were of four figure (4FG) groups, they then changed over to using the 3/2FG format, which is a five figure group with a slight pause between the third and fourth digits.

The original technique used to produce the audio for TCS is rather interesting. The message to be sent was punched on a 5 bit (baudot) teletype tape. This tape was fed into a device that played a mylar cylinder that had a number of audio tracks recorded on it - the same basic technique as is still used today to store the soundtrack of a movie. This device selected one of the audio tracks, which consisted of the digits 0-9, and other words like "count" and "end". This audio was fed to the transmitter. Presumably other numbers stations used similiar systems. In fact, listeners used to report hearing clicks between the digits, perhaps this is the machine switching over between tracks.

Then in 1985 a change was made. A computer was introduced that had digitized audio recordings. As before, messages could be entered via teletype tape, or they could be typed in on a keyboard. A schedule of

transmissions could be set up, and the system was automated.

Interestingly, some people have reported numbers stations sending strings of "46464646". This of course is the numeric equivalent of the codes for RYRYRYRY, which is a common RTTY test message. It's possible that someone fed a test tape into the computer, rather than the correct message tape.

And on Friday, November 6, 1998, at 0200 UTC TCS was heard sending a message to ID "000". The first five groups of the message were:

000 00 987 65 432 10 987 65 432 10

Then seemingly random numbers followed. An interesting test message. The message length was 215, which is a fairly common length. Some believe that messages with this count are all test messages.

And where are Counting Station broadcasts transmitted from? Well, from signal reports it appears that numerous sites worldwide are used. It is known that some transmissions originate from the USA - right outside of Washington, DC in fact. They come from a site in rural Virginia, about an hours drive southwest of Washington. Originally, it was thought that they came from a military base called "Vint Hill Farms", near Warrenton, Virginia. As it turns out, while Vint Hill was used for intelligence purpose, it was as an interception site, for training, and equipment design and testing, not for spy numbers transmitting. Vint Hill Farms has since been closed down.

They are transmitted from Site C of the "Warrenton Training Center" (WTC). What is the Warrenton Training Center? Well, the little sign outside the gate says it is part of the National Communication System (NCS). Officially, the NCS is an agency which facilitates communications between various parts of the US government. It was founded in 1962, after the Cuban Missile Crisis. In particular, it is supposed to make sure that the government continues to have communications in the event of a nuclear war.

In reality, many believe the NCS is purely a cover for the CIA. There are some official exercises and programs that claim to show participation with the NCS, but the CIA is really running the show. One of the many parts of the NCS is the Warrenton Training Center, a collection of four sites in rural Virginia, near the town of Warrenton. These sites are referred to by letter, A through D.

I've driven around the perimeter of these sites. It's just a short drive from Washington, and if you're ever in the area, you should give it a try. All of the sites are just off of state routes, so you don't have to drive on too many back country roads.

Station A is a small facility used for meetings and conferences.

Station B is the primary training facility for the Office of Communication. This consists of basic training in morse code, radio theory, and so on. Training for the Department of State is also conducted at this site. (The close cooperation between diplomatic and intelligence branches of governments of course goes back thousands of years).

Station C is the transmitter site. This site houses the shortwave transmitters and antennas. It has a microwave link to Station D.

Station D is where the messages actually originate. There is also a microwave tower in Tysons Corner, Virginia, which acts as a link between the Warrenton stations and CIA headquarters. There is also an underground fiber optic line that runs from the Warrenton sites back to Washington DC.

The messages sent consist of both real "live" and dummy traffic. The purpose of course of dummy traffic is to make it difficult to determine when the agent is actually receiving messages. Usually, a simple system is used to let the agent know when a message is real or not. This usually consists of a code, such as if the middle digit is odd, the message is dummy. This lets the agent immediately know that the message isn't real. The same message is repeated several times on different frequencies over several days, all according to a set schedule. This is to allow an agent to receive messages he may have missed. Short messages are padded with extra groups to bring them up to a minimum level. Schedules are arranged with the agents during meetings with their case officer.

If you'd like to try for a Counting Station QSL card, you may want to give this address a shot. No one ever has received one, and no one probably will. You might even get your name in a CIA file for trying...

Warrenton Traing Center
Station D
Bx 261
Warrenton
VA 22186
USA

And who's voice is Cynthia's? Well, sorry to disappoint you, it isn't anyone's voice. The voice is totally synthetic. Cynthia truly is a robot.

Below is the latest version of the excellent schedule of Counting Station transmissions, maintained by Bob Roehrig.

COUNTING STATIONS BY TIME / FREQ

ZULU	KHZ	M	T	W	T	F	S	S	LANG	NOTES
=====	=====	=	=	=	=	=	=	=	=====	=====
0000	4640.0	X	X	X	X	X	X		EE	//5046
0000	5046.0	X	X	X	X	X	X		EE	//4640
0100	15478.0			X		X			SS	//16050
0100	16050.0			X		X			SS	//15478
0300	12300.5		X				X		SS	//14421
0300	14421.0		X				X		SS	//12300.5
0900	11580.0						X	X	EE	//14655
0900	14448.0							X	EE	//15822
0900	14655.0						X	X	EE	//11580
0900	15822.0							X	EE	//14448
1100	14432.0						?		EE	
1100	16086.0		X		X				EE	//21811
1100	21811.0		X		X				EE	//16086
1200	10223.0			X			X		EE	//13518
1200	13518.0			X			X		EE	//10223
1200	13906.0			X			X		EE	//15732
1200	15732.0			X			X		EE	//13906
1300	10529.0		X				X		EE	//14739
1300	13518.0						X		EE	//14739
1300	14739.0						X		EE	//13518
1300	14739.0		X				X		EE	//10529
1400	15833.0				X		X		EE	
1500	7600.0		X				X		EE	//10597
1500	10597.0		X				X		EE	//7600
1700	10423.0						?		EE	//12197
1700	12197.0						?		EE	//10423
1700	13450.0	X			X	X		X	EE	//14448
1700	13874.0		X	X					EE	//15822
1700	14448.0	X			X	X		X	EE	//13450
1700	15822.0		X	X					EE	//13874
1800	11072.0	X					X		EE	//13444
1800	13444.0	X					X		EE	//11072
1800	13450.0			X					EE	//14448
1800	14448.0			X					EE	//13450
1900	10527.0						X		EE	//12197
1900	11491.0			X			X		EE	//13450
1900	12197.0						X		EE	//10527
1900	13450.0	X		X					EE	//14448
1900	13450.0			X			X		EE	//11491
1900	14448.0	X		X					EE	//13450
2000	10423.0	X			X				EE	//12197
2000	10527.0					X		X	EE	//12197
2000	12197.0	X			X				EE	//10423
2000	12197.0					X		X	EE	//10527
2100	10263.0			X				X	EE	//12150
2100	10583.0		?					?	EE	//12175

2100	12150.0	X		X EE	//10263
2100	12175.0	?		? EE	//10583
2200	8125.0	X		X EE	//10423
2200	10423.0	X		X EE	//8125
2200	11440.0	?	?	EE	//13988
2200	13988.0	?	?	EE	//11440

John Maky noticed a remarkable series of _what looks like_ test transmissions on 4670//5238 at 0200 UTC. Here's the breakdown...

6 Nov. 0200 UTC. Repeating "000". Count 215. First five text being
000/00 987/65 432/10 987/65 432/10.
15 Nov. 0200 UTC. Repeating "049". Count 215. First five text being
222/22 987/65 432/10 987/65 432/10.
16 Nov. 0200 UTC. Repeating "062". Count 215. First five text being
333/33 987/65 432/10 987/65 432/10.
17 Nov. 0200 UTC. Repeating "062". Count 215 3/2FG w/ 333/33 text.

-0-0-0-0-0-0-0-0-0-0-

::: ATENCION [V2]

John also found a number of new times/freqs for V2 'Atencion'.

7854 0100 Sunday 10/18/98
6768 0100 Saturday 10/31/98
7681 0200 Tuesdays 11/4/98
9024 (old version). Tuesdays 0200 (11/4/98)
6782 0300 Friday 11/6/98
4174 0300 Monday

Talking about V2..... Bob Roehrig <broehrig@admin.aurora.edu> heard the following on Monday Nov 8 at 0400 UTC. In his own words.....

- 1) Caught M8 CW station on 7680 and heard Spanish numbers faintly in the background (had the receiver in USB).
- 2) Went looking for any V2 stations and heard one on 6768 - thinking that it sounded a lot like what I heard on 7680, so I switched on receiver #2 and tuned it back to 7680. Well, it turns out that on 7681 LSB was // transmission to the AM V2 on 6768. This was definitely LSB - no carrier. I have never heard any // V2 transmissions before.

-0-0-0-0-0-0-0-0-0-0-

::: V7 schedule for November:

06.00 UTC - 10233 kHz

06.20 UTC - 12133 kHz
06.40 UTC - 13533 kHz

-0-0-0-0-0-0-0-0-0-0-

* TRANSPOSITION CIPHERS *
by Torbjorn Andersson <tan@telia.com>

Table of contents

- * Introduction
- * Single columnar transposition
- * Double columnar transposition

* Introduction

Transposition ciphers are rarely encountered nowadays. They differ from both code systems and substitution ciphers; in a transposition cipher the letters of the cleartext are shifted about to form the cryptogram. This can be done in a number of ways and some systems exist where even whole words are transposed, rather than individual letters. To encrypt Chinese, for instance, one can use a transposition cipher operating on the individual signs of written Chinese (using a substitution cipher for a language like Chinese would be awkward if not impossible).

* Single columnar transposition

One of the easiest ways to achieve transposition is the single columnar transposition cipher. To use it one needs a keyword or phrase, whose letters are numbered according to their presence in the alphabet. The keyword 'Osymandias' is numbered in the following way:

O	S	Y	M	A	N	D	I	A	S
7	8	10	5	1	6	3	4	2	9

That is, the first occurrence of the letter A is numbered 1, the second 2. There are no B's or C's so the next letter to be numbered are the D followed by I, and so on.

Next the cleartext are written in rows under the numbered keyword, one letter under each letter of the keyword. Let's say that the cleartext to be encrypted is 'Company have reached primary goal'. It will look like this:

O	S	Y	M	A	N	D	I	A	S
7	8	10	5	1	6	3	4	2	9
c	o	m	p	a	n	y	h	a	v
e	r	e	a	c	h	e	d	p	r
i	m	a	r	y	g	o	a	l	

Now the letters of the cleartext are copied down by reading them off columnwise in the order stated by the enumeration of the keyword and the result is the finished cryptogram, which - of course - are put into groups of five letters, like this:

ACYAP LYE0H DAPAR NHGCE IORMV RMEA

To decrypt a received message enciphered by this method one first must calculate the number of letters present in the cryptogram. This is done to see how many letters there originally were in the last row. As can be seen above, the last column - the one numbered 9 - only contains two letters and this is important. Now the cryptogram above contains 29 letters and as a legitimate user of the crypto system one knows that the keyword is ten letters wide, therefore the last row must consist of nine letters only, the last position being empty. Keeping that in mind - or better still, marking the last position of row three in some way to indicate that it shouldn't be used - one numbers the keyword letters just as when encrypting and then start by writing the first three letters of the cryptogram under keyword letter number one, thus:

0	S	Y	M	A	N	D	I	A	S
7	8	10	5	1	6	3	4	2	9
.	.	.	.	a	.	.	.	.	.
.	.	.	.	c	.	.	.	.	.
.	.	.	.	y	.	.	.	.	*

Continue in the same way by writing the next three letters under keyword letter number two, and so on up to keyword letter eight, it will look like this:

0	S	Y	M	A	N	D	I	A	S
7	8	10	5	1	6	3	4	2	9
c	o	.	p	a	n	y	h	a	.
e	r	.	a	c	h	e	d	p	.
i	m	.	r	y	g	o	a	l	*

Now column nine follows and there only two letters should be written as stated above (the position marked by a star being left empty). This leaves three letters of the cryptogram, and these - of course - are written in column ten and then the cleartext can be read in the normal way, row by row.

Usually when employing a transposition cipher like the above, one adds dummy letters to make the final group five letters long if it isn't already full. It is important to do this before transposing the letters, otherwise the receiver can't calculate the columns that haven't a full number of letters if the last row isn't complete. In some cases the last row is always made complete by adding dummy letters, but that

reduces the security of the cipher and isn't recommended (now, this cipher is quite easy to break anyhow...).

* Double columnar transposition

Double columnar transposition is similar to single columnar transposition, but the process is repeated twice. One either uses the same keyword both times or, preferably, a different one on the second occasion. Let's encrypt the text 'Send armoured car to headquarters' using the keywords 'Agamemnon' and 'Mycenae':

```
A G A M E M N O N
1 4 2 5 3 6 7 9 8
s e n d a r m o u
r e d c a r t o h
e a d q u a r t e
r s j
```

(Note dummy letter j added at the end to make the total number of letters a multiple of five)

This first encryption gives: srer-nddj-aau-eeas-dcq-rra-mtr-uhe-oot.
These letters are written under the second keyword, thus:

```
M Y C E N A E
5 7 2 3 6 1 4
s r e r n d d
j a a u e e a
s d c q r r a
m t r u h e o
o t
```

And, finally this gives the cryptogram:

DEREE ACRRU QUDAA OSJSM ONERH RADTT

Double columnar transposition is substantially safer against cryptanalysis than single columnar transposition (not impossible, though).

Numbers + Oddities Newsletter LOG COLUMN

Jascha Ruesseler
Ruessele@pc0401.psychologie.uni-marburg.de
znn000000@hotmail.com (use only if the other one is not available)
#####

Hi, folx, welcome to the logs.

Our log format is as follows:

FREQ c/s Station Enigma-Code rest in free format should include time, date, mode, details and initials.

Unfortunaltely, folks are using different formats for the date. This is very annoying to those who want to import the logs to a database. Please use the following format: mmddyy, that is 121498 from now on. This is the most common format for the folks on this list, so the Europeans have to change their habit, i think :-)

Due to limited time no logs from my side this month and i also had to exclude older logs due to limited time. I'll try to compile a supplement from these older logs for inclusion in the december issue.

Please note that I can only include logs in the column which stick to this format. In this column I include logs posted to the spooks or WUN mailing lists or to Ary or myself privately. For a reference of the enigma designators see n+o newsletter no.1. If you want to remain anonymous, just send your logs to me or Ary with a note saying so.

Let's open the logbook...

LP = Lincolnshire Poacher

TCS = The Counting Station aka Cythia

#####

```
2809    M10 Weds 18 Nov 1645 555x3 571 32 275 49 049 46 (GD2)
3389    V2 0100 USB ATTENTION 48833 79602 48833 (Cont'd - Fem/SS
        - Tue) 17 Nov 98 (LBJ)
3389    Atencion/V2 0100 Tue 11/17/98 YL/SS 5FG in progress. (JM4)
3410    M17  Thurs 12 Nov 2130 66329 22(GD2)
3525    M45  Thurs 19 Nov 1802 525 974 974 47 47 = =(GD2)
3525    M45  Thurs 12 Nov 1802 525 974 974 47 47 (GD2)
3745    M51 0545 (Thu 29 Oct) CW "NR 77 0 29 05:42:41 1998" (VM)
3745    M51 0639 (Fri 06 Nov) CW "NR 40 N 06 07:39:35 1998" (VM)
4027    M8 0328 CW (In 5ltr/cut/nrs - Sun) 15 Nov 98 (LBJ)
4027    M8 Cut-numbers 0600z (03-Nov-98) TDWDN WTWDN WMATD obscured
        & faint (PFR)
4027.5  ANDUWRIGMT/M8 0300 Fri 11/20/98 5F/L/G in progress. (JM4)
4028    Atencion/V2 0200 Sat 11/28/98 YL/SS 5FG in progress. Note new
        time slot. (JM4)
4028    Spanish YL, V2A, *0600 (16 Nov), Atencion 37221 53111 54371.
        Weak to fair signal. (DM)
4029    V2 1100 AM TENCION (Too weak to copy - Fem/SS - Mon) 23
        Nov 98 (LBJ)
4029    M10  Thurs 19 Nov 1810 555x3 905 71 423 35(GD2)
4034.5  ANDUWRIGMT/M8 0400 Sat 11/28/98 5F/L/G in progress. (JM4)
```


4035.5 ANDUWRIGMT/M8 0400 Sat 11/21/98 5F/L/G in progress. (JM4)
 4036 V2 1100 AM ATENCION (Too weak to copy - Fem/SS - Wed) 25 Nov 98 (LBJ)
 4036 V2 1100 AM ATTENTION 89563 65853 52.73 SS 18 Nov 98 (LBJ)
 4106 M26 Sat 14 Nov 2100 54 54 54 54 54 // 2967(GD2)
 4106 M26 Sat 14 Nov 2102 99 11008(GD2)
 4106 M26 Sat 14 Nov 2104 95 12345(GD2)
 4106 M26 Sat 14 Nov 2110 95 11000(GD2)
 4173 M8 1100 CW TGDWD TWWWD WIIMNH (Fri) 20 Nov 98 (LBJ)
 4174 Atencion/V2 0300 Mon 11/16/98 YL/SS rptg A 58963 54192 29953 and into 5FG. (JM4)
 4178.5 ANDUWRIGMT/M8 0500 Thur 11/26/98 5F/L/G in progress. (JM4)
 4180 M3 Weds 18 Nov 1630 287/00(GD2)
 4180 M3 Thurs 19 Nov 1630 287/00(GD2)
 4180 M3 Friday 13 Nov 1630 287/00(GD2)
 4180 M3 Sat 14 Nov 1630 287/00(GD2)
 4180 M3 Thurs 12 Nov 1630 287/00(GD2)
 4270 Mossad (E10) 1506 (20/nov) USB YL/EE 5 letter groups (JD)
 4329 Atencion/V2 0400 Wed 11/18/98 YL/SS rptg A 50523 81689 95592 into 5FG. (JM4)
 4460 M29 Friday 13 Nov 2000 14x5F(GD2)
 4460 M29 Thurs 12 Nov 2000 Rpt of 1800 4540(GD2)
 4461 MOSSAD/E10 0300 Sat 11/28/98 YL/EE rptg FTJ and into 5LG (JM4)
 4461 MOSSAD/E10 0300 Fri 11/27/98 YL/EE rptg FTJ and into 5LG (JM4)
 4461 MOSSAD/E10 0300 Thur 11/26/98 YL/EE rptg FTJ and into 5LG (JM4)
 4479 Atencion/V2 0400 Fri 11/27/98 YL/SS rptg A 50311 31093 53153 and into 5FG. (JM4)
 4479 Atencion/V2 0300 Wed 11/18/98 YL/SS rptg A 50523 81689 95592 into 5FG. (JM4)
 4490 M1 Thurs 12 Nov 2000 197 278 278 34 34 = =(GD2)
 4506 M8 0335 CW (In 5ltr/cut/nrs - Sun) 15 Nov 98 (LBJ)
 4506.5 ANDUWRIGMT/M8 0400 Fri 11/27/98 5F/L/G in progress. (JM4)
 4507.5 ANDUWRIGMT/M8 0300 Sun 11/22/98 5F/L/G in progress. (JM4)
 4540 M29 Weds 18 Nov 1800 11x5F Heavy QRM(GD2)
 4540 M29 Friday 13 Nov 1800 14x5f(GD2)
 4540 M29 Sat 14 Nov 1800 14x5F(GD2)
 4540 M29 Thurs 12 Nov 1800 14x5F(GD2)
 4615 M14A Friday 13 Nov 1900 560 321 48 Heavy QRM(GD2)
 4630 English Man/E6 0400 Sun 11/22/98 OM/EE (herm voice) rptg 347 then 592 592 64 64 and into 5FGx2. Down at :16 w/592 592 64 64 00000. Repeat of previous night's broadcast. (JM4) When audio dropped, a second weaker TEM broadcast could be heard on the carrier rptg 329 329 329 00000. I searched around and found this... 4630 The English Man/E6 0400 Sat 11/21/98 OM/EE (hermaphrodite voice) 5FGx2 in progress. Down at :15 w/592 592 64 64 00000. (JM4)
 4660 M29 Weds 18 Nov 2000 11x5F Heavy QRM(GD2)
 4670 //5238 TCS/E5 (test) 0200 Tue 11/17/98 YL/EE rptg 062 Count

215 3/2FG w/ 333/33 text. (JM4)
 4670 //5238 TCS/E5 (test) 0200 Mon 11/16/98 YL/EE rptg "062" Count
 215 into 3/2FG. (JM4)
 4670 //5238 TCS/E5 (another test broadcast) 0200
 Sun 11/15/98 YL/EE rptg 049 w/1-0 count. At 0210 Count 215 and
 into 3/2FG - the first five being 222/22 987/65 432/10 987/65
 432/10 then random groups. Carriers up at 0100. (JM4)
 4693 M12 2228 (Wed 21 Oct) CW in progress. Ended at 2234 with 000
 000 (VM)
 4705 M1B Friday 13 Nov 2203 419 135 135 44 44 = =(GD2)
 4740 M17 0443 (Tue 27 Oct) CW 63236 27 27 = (VM)
 4740 M17 Weds 18 Nov 1720 53283 22 22 =(GD2)
 4803 M52 0630 (Thu 05 Nov) CW 12 II 426276x3 AR (VM)
 4870 M3 Weds 18 Nov 1030 048/00(GD2)
 4870 M3 Friday 13 Nov 0800 041/00(GD2)
 4870 M3 Friday 13 Nov 0800 041/00 (GD2)
 4950 M1B 1828 (Wed 11 Nov) CW in progress Ended ==296 296 36 36
 000 (VM)
 4950 M1B Weds 18 Nov 1818 103 296 296 36 36 = =(GD2)
 4970 M24A Weds 18 Nov 1900 362 108 95 362 510 47 (GD2)
 4990 2132 Thurs 12 Nov 2132 514 913 913 48 48 = =(GD2)
 5020 M10? Thurs 19 Nov 1000 111x3 52544 18 44730 20(GD2)
 5028 M10 Thurs 12 Nov 1810 555x3 905/90 423/50(GD2)
 5089 M3 Weds 18 Nov 1200 016/00(GD2)
 5091 Mossad (E10) 1507 (20/nov) USB YL/EE 5 letter groups (JD)
 5091 Mossad (E10) 1712(23/nov) USB YL/EE 5 letter groups (JD)
 5127 German lady G7 1949 (Fri 23 Oct) in progress (VM)
 5202 M52 0420 (Thu 29 Oct) CW 31 II 657009x3 AR (VM)
 5221 M51 0641 (Thu 29 Oct) CW "NR 86 0 29 06:38:45 1998" (VM)
 5320 M1 Thurs 12 Nov 1800 197 914 914 33 33 = =(GD2)
 5360 M3 Weds 18 Nov 0830 044/00(GD2)
 5366 M3 0640 (Tue 27 Oct) CW 044/63 in progress (VM)
 5417 Spanish Lady V2 0711 (Mon 12 Oct) in progress (VM)
 5417 Spanish YL, V2A, *0700 (16 Nov), Atencion 37221 53111 54371.
 Very good signal, don't know why the repeats were coming in
 better this evening. (DM)
 5419 M8 CW cut numbers, 0235, (16 Nov), joined in progress.
 Fair signal (DM)
 5435 MOSSAD/E10 0300 Sat 11/28/98 YL/EE rptg ART and into 5LG.(JM4)
 5435 MOSSAD/E10 0300 Fri 11/27/98 YL/EE rptg ART and into 5LG. (JM4)
 5435 MOSSAD/E10 0300 Thur 11/26/98 YL/EE rptg ART and into 5LG (JM4)
 5435 Mossad (E10) 1502 (20/nov) USB YL/EE ART 2 (JD)
 5435 MOSSAD/E10 0300 Sun 11/22/98 YL/EE rptg ART into 5LG. (JM4)
 5520 M3 Thurs 19 Nov 0830 019/00 Same as 1997(GD2)
 5520 M3 Thurs 19 Nov 0900 011/00(GD2)
 5520 M3 Thurs 12 Nov 0830 018/51(GD2)
 5520 M3 Thurs 12 Nov 0900 011/00(GD2)
 5732 Two-Letter German/G16 0400 Sun 11/22/98 YL/GG rptg "Whiskey

Lima" w/electronic tune. At 0405, ...messages for 046; 046 64 gruppen... Achtung! and into 3/2FGx2. Down at :13 w/ende. (JM4)

5732 Two-Letter German/G16 0400 Sun 11/15/98 YL/GG rptg Whiskey Lima w/electronic tune. At 0405, ...046; 046 67 gruppen... Achtung! and into 3/2FGx2. Down w/ende at :13. (JM4)

5738 M24? 0732 (Wed 04 Nov) CW 738 902 902 173 173== (VM)

5738 M24? 0730 (Wed 11 Nov) CW 738 94 181 181== (VM)

5748 M4 Thurs 12 Nov 1257 L0 L0x3/88613(GD2)

5758.5 ANDUWRIGMT/M8 0300 Fri 11/20/98 5F/L/G in progress. Groups MNDDA and MARRD given during text. Down at :36 w/AR AR AR SK SK SK. (JM4)

5788 M12 1830 (Mon 12 Oct) CW in progress. Repeat of 6856. Ended at 1833 (VM)

5810 M1 Sat 14 Nov 1500 197 403 403 41 41 = =(GD2)

5870 M51 1828 (Mon 09 Nov) CW in progress (VM)

5870 M3 Thurs 19 Nov 0800 017/00(GD2)

5898 M51 0720 (Fri 30 Oct) CW in progress (VM)

5905 M51 0627 (Tue 20 Oct) CW in progress (VM)

5905 M51 0619 (Fri 23 Oct) CW in progress (VM)

6270 //7760 MOSSAD/E10 0100 Sat 11/28/98 YL/EE rptg ULX and into 5LG. (JM4)

6270 //7760 MOSSAD/E10 0100 Fri 11/27/98 YL/EE rptg ULX and into 5LG. (JM4)

6270 //7760 MOSSAD/E10 0100 Thur 11/26/98 YL/EE rptg "ULX ULX" several times, stopped, then proper ULX call-up sent and into 5LG. (JM4)

6270 //7760 MOSSAD/E10 0100 Fri 11/20/98 YL/EE rptg ULX into 5LG (JM4)

6270 //7760 MOSSAD/E10 0100 Wed 11/18/98 YL/EE rptg ULX and into 5LG. (JM4)

6270 //7760 MOSSAD/E10 0100 Mon 11/16/98 YL/EE rptg ULX and into 5LG. (JM4)

6270 //7760 MOSSAD/E10 0100 Sun 11/15/98 YL/EE rptg ULX and into 5LG. (JM4)

6330 M3 Friday 13 Nov 0830 017/00(GD2)

6430 M3 Thurs 19 Nov 1030 216/00 Same as 1997(GD2)

6430 M3 Thurs 12 Nov 1030 216/00(GD2)

6625 CUBA Babbler, 1723 SP W tfc, xInt audio! Still going 2120 recheck. Fair. 11/27 (ANUS)

6727 German lady G7 1914 (Fri 23 Oct) in progress. Ended at 1919 with 000 000 (VM)

6745 MOSSAD/E10 0508 Thur 11/26/98 YL/EE rptg KPA2 sporatically from :08 until I gave up at :20. (JM4)

6767 M8 0111 CW (In 5ltr/cut/nrs - Tue) 17 Nov 98 (LBJ)

6767.5 ANDUWRIGMT/M8 0100 Tue 11/17/98 5F/L/G in progress. (JM4)

6780 M10? 1824 (Sun 18 Oct) CW 5FGx2 in progress. Ending == 3939 13 13 000 (VM)

6782 Atencion/V2 0300 Fri 11/27/98 YL/SS rptg A 04134 32492 93552

and into 5FG. (JM4)

6782 M12 0511 (Mon 19 Oct) CW in progress (VM)

6782 M12 0408 (Tue 27 Oct) CW in progress. Ended at 0413 with 000 000 (VM)

6782 M12 0605 (Wed 28 Oct) CW 749x3 1 4307 142 (VM)

6782 M24? 0717 (Wed 04 Nov) CW in progress. Ended at 0724 with == 902 902 173 173 00000 (VM)

6782 M24? 0708 (Wed 11 Nov) CW in progress (VM)

6782 Atencion/V2 0300 Fri 11/20/98 YL/SS rptg A 04131 43592 25363 into 5FG. (JM4)

6782 M12 Weds 18 Nov 1700 749x3 1 1136 145(GD2)

6782 M12 Thurs 19 Nov 1700 749x3 000(GD2)

6782 M12 Friday 13 Nov 1700 749x3 000(GD2)

6782 M12 Thurs 12 Nov 1700 749x3 000(GD2)

6786 M8 0726 (Mon 12 Oct) CW in progress (VM)

6786 Spanish YL, V2A, 0600 (15 Nov) with Atencion 69442 36301 05493. Signal this time was very good. (DM)

6786 M8 CW cut numbers 0700 (16 Nov), RWGAA RNTUN ATTID. Excellent signal. (DM)

6786 M8 Cut-numbers 0600z (03-Nov-98) IGGUA WWTMD WRTAA rpt of 7682/0500z (PFR)

6787 M8 Weds 18 Nov 1000 16022 31993 58392(GD2)

6787 M8 Thurs 19 Nov 0800 93721 25912 93343(GD2)

6787 M8 Thurs 12 Nov 0800 04403 12371 75502 (GD2)

6795 Spanish YL, V2A, *0600 (16 Nov). NOTE: Normally they use 6797 but this time it was 6795. Atencion 76191 74931 09271. Signal was fair to good. (DM)

6797 Atencion/V2 0500 Thur 11/26/98 YL/SS rptg A 58852 24922 58112 and into 5FG. (JM4)

6797 Atencion/V2 0200 Mon 11/23/98 YL/SS rptg A 43593 52253 24851 into 5FG. (JM4)

6797 M8 CW cut numbers 0800 (15 Nov), DTAUD RNTUA ATTIN, very good signal on this one. (DM)

6797 Spanish YL, V2A, 0200 (16 Nov), started out with M8 tape but then switched over to their regularly-scheduled voice. I have the callup as "Atencion 18033 52252 77893". Signal was weak to fair. (DM)

6797 Atencion/V2 0200 Mon 11/16/98 YL/SS rptg A 18033 55252 55893 and into 5FG. Broadcast started w/a M8 tape being played on AM for a few seconds before op realized error. (JM4)

6809 M3 Thurs 12 Nov 1000 976/00(GD2)

6816 Backwards Music Station/XM 0200 Sat 11/28/98 (JM4)

6820 M53 2209 (Thu 05 Nov) CW in progress (VM)

6820 M53 Sat 14 Nov 0800 CQ 747.??? Poor signal(GD2)

6820 M53 Thurs 12 Nov 2100 CQ 747.491(GD2)

6825 M8 1200 CW MNDDA IRAIN RIRTA (Thurs) 19 Nov 98 (LBJ)

6825 M8 Weds 18 Nov 0800 65813 25911 93342(GD2)

6826 Atencion/V2 0300 Wed 11/18/98 YL/SS rptg A 52646 43381 43591

into 5FG. (JM4)

6826 Spanish YL, V2A, *0300 (16 Nov), Atencion 18033 52252 77893. Fair signal this time around. (DM)

6826 Spanish YL, V2A, *0900 (16 Nov), Atencion 62731 27543 21062. Excellent signal. (DM)

6826 Atencion/V2 0300 Mon 11/16/98 YL/SS rptg A 18033 55252 55893 and into 5FG. (JM4)

6827 M8 1200 CW WADND GUUDA IDNWD (Thurs) 12 Nov 98 (LBJ)

6827 M8 CW cut numbers 0700 (15 Nov), DTAUD RNTUA ATTIN. Fair signal.(DM)

6834 M10? 1716 (Tue 10 Nov) CW 5FGx2 in progress. Ended at 1718 with ==92 92 34 34 000 (VM)

6835 M10, ? 17.00 (Nov 1) CW 555(3x) 585(3x) 36 086(3x) 31 etc (AB)

6839 M51 0726 (Mon 09 Nov) CW "NR 41 N 09 08:25:52 1998" (VM)

6839 M51 0717 (Thu 12 Nov) CW "NR 68 N 12 08:16:45 1998" (VM)

6840 Mossad/E10, ISR 20.00 (Nov 1) USB EZI + 5LG (AB)

6840 Mossad (E10) 1708(23/nov) USB YL/EE 5LGs //9130 (JD)

6854 M8 1200 CW MRNGA ADAUN AINAA (Wed) 25 Nov 98 (LBJ)

6854 M8 1200 CW (Already in tfc - Wed) 18 Nov 98 (LBJ)

6854 M8 Thurs 19 Nov 0800 98611 20882 59082(GD2)

6854 M8 Thurs 12 Nov 0800 IP(GD2)

6854.5 ANDUWRIGMT/M8 0400 Thur 11/26/98 5F/L/G in progress w/groups GTMWD and TNRNA given during text. (JM4)

6855 M8 0508 (Tue 13 Oct) CW in progress (VM)

6855 Spanish YL, V2A, 0300 (16 Nov), Atencion 27662 04982 61622. Weak signal. (DM)

6855 M8 CW cut numbers 0500 (16 Nov), WTAUD DAMMN NMNGD. Fair signal. (DM)

6855 Atencion/V2 0300 Mon 11/16/98 YL/SS rptg A 25362 04982 61622 and into 5FG. (JM4)

6855 M8 Cut-numbers 0500z (03-Nov-98) DWWRD GAUGA GRRMN faint (PFR)

6856 M12 1810 (Mon 12 Oct) CW in progress. Ended at 1813 (VM)

6865 The English Man/E6 0130 Mon 11/23/98 OM/EE 5FGx2 in progress w/repeat of prior nights broadcast. Down at :07 w/782 782 194 194 00000. (JM4)

6865 The English Man/E6 0130 Sun 11/22/98 OM/EE (hermaphrodite voice) rptg 936 then 782 782 194 914 and into 5FGx2. Down at :07 w/782 782 64 64 00000. (JM4)

6865 The English Man/E6 0130 Mon 11/16/98 OM/EE (hermaphrodite voice) rptg 936 w/repeat of previous nights broadcast. (JM4)

6865 The English Man/E6 0130 Sun 11/15/98 OM/EE (hermaphrodite voice) rptg 936 then 547 547 128 128 and into 5FGx2. Down at :56 w/547 547 128 128 00000. Carrier was up as early as 0100 w/test tones and call ups. Usual +60db. (JM4)

6866 M8 1204 CW (In 5ltr/cut/nrs NGDUA (Cont'd) BT(x3) NAAGM GRDNU...(Fri) 13 Nov 98 (LBJ)

6866 M8 1200 CW MNDDN IRAID RIRTN (Fri) 20 Nov 98 (LBJ)

6867 The English Man/E6 0315 Fri 11/27/98 OM/YL/EE rptg 562

w/repeat of previous nights broadcast. (JM4)

6867 The English Man/E6 0315 Thur 11/26/98 OM/EE (herm. voice)
rptg 562 then 384 384 61 61 and into 5FGx2. Down at :30
w/384 384 61 61 00000. +60 db carrier up w/tests at 0300 (JM4)

6876 M12 0522 (Thu 29 Oct) CW 691x3 1 (VM)

6877 Russian man S7 0505 (Tue 13 Oct) ID 812 null message (VM)

6887 M13A 2003 (Mon 12 Oct) CW repeating 387 387 387 000 until
2005 then = 176 22 = and into 5FG (VM)

6893 M12 2123 (Wed 28 Oct) CW 886x3 1 5136 101 (VM)

6920 M53 Weds 18 Nov 2100 CQ 747.381 HR 20 (GD2)

6921 M8 0710 (Thu 12 Nov) CW in progress (VM)

6925 //6954 M51 0717 (Fri 06 Nov) CW "NR 46 N 06 08:16:39 1998 (VM)

6933 M8 1200 CW UWTAD ARNIN GNTID (Tue) 24 Nov 98 (LBJ)

6933 M8 1200 CW GGDAN IRUTA UANWD (Tue) 17 Nov 98 (LBJ)

6933 M8 Friday 13 Nov 0800 30141 12372 75503 (GD2)

6933 M8 Sat 14 Nov 0800 30112 12273 00471(GD2)

6933 M8 Friday 13 Nov 0800 30141 12372 75503 (GD2)

6934 M12 Sat 14 Nov 2100 658x3 1 4342 145(GD2)

6940 //6963 M51 0728 (Mon 26 Oct) CW "NR 44 0 26 10:30:16 1998 BT"
and into 5LG. Note UTC+3! At 0818 it is sending a FAV22 Morse
lesson (VM)

6940 //6963 M51 0514 (Tue 27 Oct) CW "NR 61 0 27 08:15:51 1998" (VM)

6941 M51 0637 (Mon 19 Oct) CW in progress (VM)

6941 M51 0706 (Thu 22 Oct) CW in progress (VM)

6941 M51 2026 (Thu 22 Oct) CW in progress (VM)

6946 M51 1806 (Wed 28 Oct) CW "NR 55 0 28 19:03:55 1998" (VM)

6959 LP, CYP 20.00 (Nov 1) USB id 92865 (AB)

6962 M51 0625 (Mon 12 Oct) CW "NR 75 0 12 08:25:21 1998" (VM)

6962 M51 2057 (Mon 12 Oct) CW "NR 21 0 12 22:57:25 1998" (VM)

6978 M24? 0640 (Wed 28 Oct) CW in progress. Ended at 0652 with
==930 930 156 156 00000 (VM)

6983 Atencion/V2 0200 Fri 11/27/98 YL/SS rptg A 04134 32492 93552
and into 5FG. (JM4)

6983 M51 0638 (Mon 12 Oct) CW "NR 77 0 12 08:38:49 1998" (VM)

6983 M51 2051 (Mon 12 Oct) CW "NR 20 0 12 22:51:06 1998" (VM)

6983 Atencion/V2 0200 Fri 11/20/98 YL/SS rptg A 04131 43592 25363
into 5FG. (JM4)

6984 V2 1100 AM (Fem/SS - unable to copy - extremely distorted -
Thurs) 12 Nov (8 (LBJ)

7262 M12 1930 (Fri 23 Oct) CW ID 127 Null message (VM)

7425 M17 Weds 18 Nov 0900 53283 22 22 = (GD2)

7462 English Man/E6 null broadcast 0115 Tue 11/17/98 OM/EE (herma-
phrodite voice) rptg 435 435 435 00000 then down. (JM4)

7482 Atencion/V2 0400 Thur 11/26/98 YL/SS rptg A 58852 24922 58112
and into 5FG. (JM4)

7483 V2 0400 AM ATENCION 58852 24922 58112 (Fem/SS - Thurs) 26 Nov
98 (LBJ)

7519 M8 Cut-numbers 0418z (15-Nov-98) in progress (PFR)

7519.5 ANDUWRIGMT/M8 0400 Fri 11/27/98 5F/L/G in progress. (JM4)
7555 Atencion/V2 0300 Sun 11/22/98 YL/SS rptg A 04132 25934 05444
into 5FG. Mucho QRM from Lord's Ranch. You would think one of
them would give up. (JM4)
7555 Atencion/V2 0300 Sun 11/15/98 YL/SS rptg A 52645 25933 05443
w/mucho QRM from Lords Ranch, so I might have copied call-up
wrong. (JM4)
7576 Unid CW 0516z (04-Nov-98) 4F/LG fast -off 0521z -at one point,
had a bunch of Vs in a row, then paused and restarted. VERY
faint. (PFR)
7580 M8 Thurs 19 Nov 1000 Call missed(GD2)
7580 M8 Thurs 12 Nov 1000 81773 90163 25462(GD2)
7581 M8 CW cut numbers 0800 (15 Nov), WWWTD NRMTA ATDRA (DM)
7583 Atencion/V2 0000 Sat 11/28/98 YL/SS 5FG in progress. (JM4)
7583 Atencion/V2 0200 Wed 11/18/98 YL/SS 5FG in progress. (JM4)
7584 M8 0911 (Mon 12 Oct) CW in progress (VM)
7585 Counting stn E5 1732 (Tue 10 Nov) in progress (VM)
7600 TCS (E5) 1500 (20/nov) USB YL/EE id 169 count
162 //10597 (JD)
7657 M12 0525 (Mon 19 Oct) CW Call missed, preamble: 4983 146 4983
146 (VM)
7657 M12 0423 (Tue 27 Oct) CW 749x3 1 3647 142(VM)
7657 M12 0722 (Tue 27 Oct) CW 749x3 1 3647 142 (VM)
7657 M12 0625 (Wed 11 Nov) CW 749x3 1 1858 135 (VM)
7680 M8 Weds 18 Nov 0900 20733 20881 59081(GD2)
7680 M8 Sat 14 Nov 0800 U/R QRM(GD2)
7680 M8 Cut-numbers 0420z (03-Nov-98) in progress (PFR)
7680.5 ANDUWRIGMT/M8 0400 Sat 11/28/98 5F/L/G in progress. (JM4)
7681 Atencion/V2 0200 Wed 11/18/98 YL/SS 5FG in progress. (JM4)
7681.5 ANDUWRIGMT/M8 0400 Sat 11/21/98 5F/L/G in progress. (JM4)
7682 M8 Cut-numbers 0500z (03-Nov-98) IGGUA WWTMD WRTAA (PFR)
7726 V2 Atencion 0522z (15-Nov-98) in progress (PFR)
7726 Spanish YL, V2A, *0500 (15 Nov) with Atencion 69442 36301
05493. Signal was weak. (DM)
7726 V2 Atencion 0516z (04-Nov-98) in progress (PFR)
7738 M24? 0716 (Tue 27 Oct) CW in progress (VM)
7738 M24? 0713 (Wed 28 Oct) CW in progress. Ended at 0718 with
==460 460 123 123 00000 (VM)
7760 E10 Mossad 0100z (03-Nov-98) very faint (PFR)
7775 English Man/E6 0215 Fri 11/27/98 OM/YL/EE rptg 562 w/repeat of
previous nights broadcast. (JM4)
7775 English Man/E6 0215 Thur 11/26/98 OM/EE (Hermaphrodite voice)
rptg 562 then 384 384 61 61 and into 5FGx2. Down at :30 w/384
384 61 61 00000. Carrier up w/tests at 0200. +60 db w/20db
attenuation! (JM4) ***may repeat tonight***
7796 M23 Weds 18 Nov 1030 886 = 100 100 =(GD2)
7796 M23 Weds 18 Nov 1600 666 = 95 95 =(GD2)
7796 M23 Thurs 19 Nov 1030 062 = 70 70 =(GD2)

7796 M23 Thurs 19 Nov 1600 482 = 47 47 =(GD2)
7796 M23 Friday 13 Nov 1030 002 = 50 50(GD2) =
7796 M23 Friday 13 Nov 1600 442 = 50 50 =(GD2)
7796 M23 Thurs 12 Nov 1030 224 = 78 78 =(GD2)
7796 M23 Thurs 12 Nov 1600 624 = 42 42 =(GD2)
7803 M51 0734 (Tue 10 Nov) CW "NR 80 N 10 08:33:41 1998" (VM)
7811 CI01 E10 2345 USB CI01 (Cont'd - Fem/EE - Thurs - OTA 2351Z
- //5170) 26 Nov 98 (LBJ)
7824 M12 2220 (Wed 21 Oct) CW ID 183 Null message (VM)
7840 M3 Friday 13 Nov 1100 508/00(GD2)
7846 M8 1100 CW RIWAD GTMWN GNMGD (Tue) 24 Nov 98 (LBJ)
7846 M8 1100 CW IUTDN INRDN DIUNN (Tue) 17 Nov 98 (LBJ)
7846 M8 1100 CW IUTDD RTAUA GWTIA (Wed) 18 Nov 98 (LBJ)
7854 Atencion/V2 0100 Sun 11/15/98 YL/SS barely audible. (JM4)
7887 Atencion/V2 0200 Sun 11/22/98 YL/SS rptg A 04132 25934 05444
into 5FG. (JM4)
7887 Atencion/V2 0200 Sun 11/15/98 YL/SS 5FG in progress. (JM4)
7889 M8 1200 CW MMRAD ADAUA AMIND (Tue) 24 Nov 98 (LBJ)
7889 M8 1200 CW RNARN WGRRD DGMIN (Tue) 17 Nov 98 (LBJ)
7918 MOSSAD/E10 0200 Sat 11/28/98 YL/EE rptg YHF and into 5LG. (JM4)
7918 MOSSAD/E10 0200 Fri 11/27/98 YL/EE rptg YHF and into 5LG. (JM4)
7918 MOSSAD/E10 0200 Thur 11/26/98 YL/EE rptg YHF and into 5LG. (JM4)
7918 MOSSAD/E10 0200 Mon 11/23/98 YL/EE rptg YHF into 5LG. (JM4)
7918 MOSSAD/E10 0200 Sun 11/22/98 YL/EE rptg YHF into 5LG. (JM4)
7918 MOSSAD/E10 0200 Fri 11/20/98 YL/EE rptg YHF into 5LG. (JM4)
8010 M8 1100 CW GAIID MTARD NWURN (Thurs) 12 Nov 98 (LBJ)
8010 M8 1108 CW (In 5ltr/cut/nrs - Late start - checked on the hour
and for about 5 mins after - Thurs) 19 Nov 98 (LBJ)
8012 Spanish lady V2 0538 (Mon 26 Oct) in progress (VM)
8012 Atencion/V2 0100 Wed 11/18/98 YL/SS rptg A 95393 10403 33351
into 5FG. (JM4)
8012 Spanish YL, V2A, *0505 (16 Nov), Atencion 76191 74931 09271.
Signal was weak, I wasn't able to verify the callup until the
much stronger 0600 xmsn aired. (DM)
8019 M52 1825 (Wed 28 Oct) CW 11 II 697489x3 AR Ended at 1848 (VM)
8065 M8 Cut-numbes 0516z (04-Nov-98) in progress (PFR)
8066 M8 1100 CW TTRWU WTAUA NWURD (Fri) 13 Nov 98 (LBJ)
8066 M8 1100 CW GTUIN TGNAN TMNUA (Fri) 20 Nov 98 (LBJ)
8067 M8 1100 CW AINAN DURWA GTMWA (Mon) 23 Nov 98 (LBJ)
8067 M8 1100 CW IMWUA WMIGD DURWD (Wed) 25 Nov 98 (LBJ)
8067 M8 0513 (Sun 18 Oct) CW in progress (VM)
8067 M8 1100 CW ARTNN DAMMD WGDMM (Wed) 18 Nov 98 (LBJ)
8085 Counting stn E5 1707 (Mon 09 Nov) 905 Count 207 (VM)
8087 Spanish Lady V2 0705 (Sun 08 Nov) in progress (VM)
8124 M12 2210 (Wed 21 Oct) CW ID 183 Null message (VM)
8162 M12 1920 (Fri 23 Oct) CW ID 127 Null message (VM)
8170 English man E6 0516 (Tue 13 Oct) ID 205 null message (VM)
8177 Russian man S7 0515 (Tue 13 Oct) ID 812 null message (VM)

8177 Russian man S7 0512 (Thu 29 Oct) 812 Null message (VM)
8186 M8 1100 CW AINAD INUWA DURWN (Tue) 24 Nov 98 (LBJ)
8186 M8 1100 CW NTARA RRRMA WGDMA (Tue) 17 Nov 98 (LBJ)
8187 M8 1100 CW TTRWD UDIRN RDMIA (Thurs) 12 Nov 98 (LBJ)
8187 M8 1100 CW ARTND RRRMN RDMID (Thurs) 19 Nov 98 (LBJ)
8188 M4 Thurs 12 Nov 1157 LO LOx3/88613(GD2)
8300 New star radio ?? (V13?) 1503(20/nov) USB YL/CC Chinese
speech, 2xchimes, repeated. Comments welcome !! (JD)
8300 New star radio ?? (V13?) 1307(23/nov) USB YL/CC Chinese
speech, 2xchimes, repeated. (JD)
8300 New Star Broadcasting/V13 1400 Mon 11/23/98 YL/CC 4FGx2 in
progress. (JM4)
8300 V13 New Star 1507z (14-Nov-98) in progress (PFR)
8307 M23 Weds 18 Nov 0800 597 R10 // 9285 (GD2)
8307 M23 Weds 18 Nov 1400 579 R10 // 9285(GD2)
8307 M23 Thurs 19 Nov 0800 579 R10 // 9285(GD2)
8307 M23 Friday 13 Nov 0800 579 R10 // 9285 (GD2)
8307 M23 Friday 13 Nov 1400 579 R10 // 9285(GD2)
8307 M23 Friday 13 Nov 0800 579 R10 // 9285 (GD2)
8307 M23 Thurs 12 Nov 1400 579 R10 // 9285(GD2)
8805 Mossad E10 0735 (Mon 09 Nov) in progress (VM)
8984 Backwards Music Station/XM 0300-0400+ Sat 11/28/98 completely
blocking USCG comms this freq. (JM4)
9044 M13 0709 (Thu 05 Nov) CW in progress 823 =170 22 (VM)
6925 // 6954 M51 0739 (Thu 05 Nov) CW "NR 07 N 05 08:38:09 1998" (VM)
9063 Atencion/V2 0200 Thur 11/26/98 extremely weak. (JM4)
9115 V2A Atencion Old-Style 0600z (03-Nov-98) 663/01 584/03 faint
- 01/52(?) then groups but fading out too quickly - obscured
by RTTY (PFR)
9130 //11565 MOSSAD/E10 0100 Sat 11/28/98 YL/EE rptg EZI and into
5LG. (JM4)
9130 //11565 MOSSAD/E10 0100 Wed 11/18/98 YL/EE rptg EZI and into
5LG. (JM4)
9153 V2 Atencion 0516z (04-Nov-98) in progress - faint (PFR)
9178 M24? 0623 (Wed 14 Oct) CW ended at 0634 with == 523 523 111
111 00000 (VM)
9178 M24? 0622 (Wed 28 Oct) CW in progress. Ended at 0622 with
==930 930 156 156 00000 (VM)
9210 English man E6 1920 (Sun 08 Nov) in progress (VM)
9212 M51 0752 (Tue 10 Nov) CW "NR 83 N 10 08:52:24 1998" (VM)
9216 English Man/E6 (null broadcast) 0415 Sun 11/22/98 OM/EE (herm
voice) rptg 329 329 329 00000 then down. (JM4)
9219 Counting stn E5 1814 (Wed 11 Nov) in progress (VM)
9265 M13 0528 (Mon 26 Oct) CW in progress ID 501 = 173 23 = (VM)
9268 Spanish lady V2 0812 (Mon 26 Oct) in progress (VM)
9270 M24? 0607 (Thu 29 Oct) CW in progress. Ended at 0611 with
==712 712 65 65 00000 (VM)
9488 M12 1808 (Sun 25 Oct) CW in progress (VM)

10350 English man E6 2021 (Sun 18 Oct) in progress. Ended at 2045
 with 528 147 00000 (VM)
 10426 //12603//14487 LP/E3 1400 Mon 11/23/98 YL/EE rptg 51997 w/tune
 and into 5FGx2. (JM4)
 10597 TCS (E5) 1510 (13/nov) USB YL/EE 3/2 figure
 groups //7600 (JD)
 11000 Phonetic alphabet (E15) 1307 (14/nov) USB OM/EE BEC QRU (JD)
 11270 Russian man control (S25) 0840 (23/nov) USB OM/RR 615(x3)
 71024 (JD)
 11430 V13 New Star 1507z (14-Nov-98) in progress - very faint (PFR)
 11445 M12 0702 (Mon 26 Oct) CW in progress. Ended at 0703 with 000
 000 (VM)
 11524 Atencion/V2 1500 Wed 11/25/98 YL/SS 5FG in progress. (JM4)
 11524 CUBA Atencion/V2 spook 1524 usual format, fair level sig but
 VERY low level modulation. (11/11) (ANUS)
 11545 //12603 LP/E3 1500 Sat 11/28/98 YL/EE rptg 44056 and into
 5FGx2. (JM4)
 11545 //14487//16084 LP/E3 1500 Wed 11/25/98 YL/EE rptg 84327 into
 5FGx2. (JM4)
 11545 LP (E3) 1501 (20/nov) USB YL/EE id 42563
 //12603//13375 (JD)
 11545 LP (E3) 1705 (23/nov) USB YL/EE id 59679
 //6959//8464 (JD)
 11545 LP/E3 2200 Tue 11/17/98 extremely weak. (JM4)
 11545 E3 LP 2200z (03-Nov-98) tune faint - #s
 inaudible (PFR)
 11565 MOSSAD/E10 0100 Fri 11/27/98 YL/EE rptg EZI and into 5LG (JM4)
 11565 MOSSAD/E10 0100 Fri 11/20/98 YL/EE rptg EZI into 5LG. (JM4)
 11565 MOSSAD/E10 0100 Mon 11/16/98 YL/EE rptg EZI and into 5LG (JM4)
 12300.5 //14421 TCS/V5 0300 Sat 11/21/98 YL/SS rptg
 102 Count 99 3/2FG. (JM4)
 12603 LP (E3) 1504 (13/nov) USB YL/EE id 33695
 //11545//13375 (JD)
 13370 English Man 1330 "789 789 000" rptd, fair.(11/17) (ANUS)
 13452 //15478 TCS/V5 0100 Fri 11/27/98 YL/SS
 rptg 208 Grupo 122(?) 3/2FG. Very weak. (JM4)
 14487 LP/E3 1300 (Music - Fem/EE - Too weak to copy - Thurs) 26
 Nov 98 (LBJ)
 14487 LP (E3) 1413 (13/nov) USB YL/EE 5FG //16084//15682 (JD)
 14487 LP (E3) 1203 (14/nov) USB YL/EE id 44053 //15682//16084 (JD)
 14487 LP (E3) 1304 (14/nov) USB YL/EE id 88551 //15682//16084 (JD)
 14487 LP (E3) 1201 (23/nov) USB YL/EE id 44053 //15682//16084 (JD)
 14487 LP (E3) 1303 (23/nov) USB YL/EE id 24093 //15682//16084 (JD)
 14487 LP (E3) 1404 (23/nov) USB YL/EE id 51977 //10426//12603 (JD)
 14487 LP (E3) 1202 (24/nov) USB YL/EE id 44053 //15682//16084 (JD)
 14487 LP E3 1300 usb 24093 5LG 01535 24485.(CT)
 14739 TCS (E5) 1306 (14/nov) USB YL/EE id 439
 count 215 (JD)

14890 Russian man control (S25) 0810 (23/nov) USB OM/RR 615(x3)
 77344 (JD)
 15478 TCS: 0112 AM YL/SS with 3/2 5FGs. //13452// (DCWright)
 16086 TCS (E5) 1103 (24/nov) USB YL/EE id 858 count 215 (JD)
 16129 M4W: Israeli intel., ISR 8.26 (Nov 29) RTTY 75bd w/FAPSI
 Moscow on 16247 kHz (AB)
 16247 RK2: FAPSI Moscow, RUS 8.29 (Nov 29) RTTY 75bd w/Israeli
 intel. on 16129 kHz (AB)
 17499 //22108 Cherry Ripe/E4 0000 Fri 11/20/98 extremely weak. (JM4)
 18000 Phonetic alphabet (E15) 1103 (25/nov) USB YL/EE BEC QRU (JD)
 18000 Phonetic alphabet (E15) 1106 (24/nov) USB OM/EE BEC QRU (JD)
 21866 Cherry Ripe 0100z (03-Nov-98) tune audible - 69?08 (PFR)
 22108 Cherry ripe (E4) 1304 (23/nov) USB YL/EE id 21002//17499 (JD)
 22108 Cherry Ripe/E4 0000 Mon 11/16/98 extremely weak. (JM4)
 23461 Cherry ripe (E4) 1001 (25/nov) USB YL/EE id 24447//20474 (JD)
 23461 Cherry ripe (E4) 1100 (25/nov) USB YL/EE id 21002//17499 (JD)
 23461 Cherry Ripe (E4) 1106 (13/nov) USB very weak. (JD)
 23461 Cherry ripe (E4) 1202 (23/nov) USB YL/EE id 24447//17499 (JD)
 23461 Cherry ripe (E4) 1002 (24/nov) USB YL/EE id 54112 (JD)
 23461 Cherry ripe (E4) 1104 (24/nov) USB YL/EE id 24447//17499 (JD)
 23461 Cherry ripe (E4) 1203 (24/nov) USB YL/EE id 21002//17499
 #####

Contributors:

AB: Ary Boender, Spijkenisse, The Netherlands
 ANUS: Anonymous, East Coast, USA
 CT: Clarence Thompson, Texas, USA
 DM: Dave Mosier, Santa Cruz, California, USA
 GD2: Guy Denman, England
 JD: Jonathan Drakes, Lincolnshire, England (Home of the Poacher, hi)
 JM4: Jonh Maky, Parks, Arkansas, USA
 LBJ: Jean-Paul LeBlanc, Ontario, Canada
 PFR: Paul F. Reah, Phoenix, Arizona, USA
 VM: Valeriano Martin, Spain

-O-O-O-O-O-O-O-O-O-O-

The 'Numbers & Oddities' column a.k.a. 'Spooks Newsletter' comes to you
 courtesy of the Worldwide Utility News club. This newsletter may NOT be
 utilized, partly or wholly, in any other media format without the written
 permission of the editor (ary@luna.nl). Any breach of this may result in
 action under international copyright legislation.

To become a WUN member, send e-mail to the WUN listserver at:
 majordomo@qth.net and in the BODY of the message type: "subscribe wun"
 (without the quotation marks).

Check out the WUN web site at: <http://www.gem.net/~berri/wun>

-o-o-o-o-conet-o-o-o-o-